

10/582982

56

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## SEQUENCE LISTING

<110> SHIPMAN, Robert C.  
LEE, David K. H.

<120> MATERIALS AND METHODS FOR ANALYSIS OF ATP-BINDING CASSETTE  
TRANSPORTER GENE EXPRESSION

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<150> US 60/529,082  
<151> 2003-12-15

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<170> PatentIn version 3.3

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<210> 21  
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753

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
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<210> 30
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<212> DNA
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atggacttga	cagcaaacct	caatctcttc	tggtctgccc	cttttcaa	cctaattggc	720
gtatatctcc	tttggcaaga	gctgggtcca	gcagtgttag	caggggtggc	agtccttg	780
tttggtta						787

<210> 35  
 <211> 488  
 <212> DNA  
 <213> Homo sapiens

<400> 35						
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ggctcccgtt	ccgtgggatg	ccataaaagc	cgcccagtgg	gaccacagt	cacacagagc	120
gcctcacctg	catcctctcc	cccacaagag	cccacaagat	cccacgggag	aggggagagg	180
gacgcacagc	actgcctgcc	aagcgagaat	gcaggccccg	ccccctcggc	ccctcaccac	240
ctctttctac	agcctaattt	attggattcc	ctattcgtag	ccatctccgt	ggccaatgtg	300
actaccgtgc	cagcagcggg	ggcggcccag	cctctgagtc	ccgtggggcc	ccggctccca	360
ccggtgccaa	accagcccc	tgcggcctgc	accccgccag	cctacactgc	cagccgccac	420
cggggcacac	gggcctctgc	ttgccagcca	ggagtgcgga	caccatgttc	ccagctcagt	480
gccaaaga						488

<210> 36  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<400> 36						
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ttttaaat	tggacttta	gcattctaat	gagggcatat	aacaaattaa	ttttagtaca	180
atcttaaata	tttttaata	atcctttcat	tttaaaaaga	gaattgccaa	tacagaaaag	240
gagtatccaa	acaatgtctc	aacctgataa	tttccttagc	agaattacct	attgcaactt	300
ctgttcagaa	atacacagct	tgtttttttg	cccaaggatg	agtctacatt	ttaagaactg	360
caatggtata	aaggaactta	aggattctga	gaatcatagt	aataacatac	attggaatag	420
tactttataa	tttacaatcc	ccattttacat	cattttcacct	taatgttgag	gacaatgttt	480

tgaaacaaat actatTTTTc ctactttgct tttgagaaaa ttgacactca gacttgcct 540  
aatcatgcac tttacttaag gaaagatcga gaaatcaaat gaagttctcc tgactctctg 600  
gtttagtgt cttttgt 617

<210> 37  
<211> 735  
<212> DNA  
<213> Homo sapiens

<400> 37  
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atgtgcagtc ttgcttaca ggaggggtta ccatgtatca cacctaactt tcccaatgtt 180  
tgggatatta aaacacaaag tccttaacat gccaggctca aggtcttata agagttctag 240  
atttttaaga gaattagaca aatttgtgtg tgtagaagc ccattcatta gaagtgtggt 300  
ggttatttgg tattaaactc caaatgagcc ataggaaggc actacatgaa ataatgcact 360  
gagtatgcaa tgctatcact gtctttgact gtgattttat gtttaaaaag tatgttctaa 420  
aattattata tatacatggg tgaattatgt ttccgaggca ctgttttctc tctgtgaatc 480  
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agttcatcaa atcatcatta atgactttat gtattatttg cacagggaga attgaaactg 600  
agtataatca ataagctaga tacgaaatca gtttctcaaa ctgagcttca gaaaggggca 660  
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cactggctac cgaag 735

<210> 38  
<211> 673  
<212> DNA  
<213> Homo sapiens

<400> 38  
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aaatctggaa gtgtgagatc tgtaagaaat gaaagaaatg actcttgag tcaagagatc 120  
tggaatctt ttaatcagtt aaattgtgca gcaatagatt tttacttta actgaccatt 180  
taagtttttt aataagtttt ttacaaagaa aagttaaaca ttaaaaagaa ttacagcttt 240  
ctgtcttctc tatcatggaa tgattttttt tattgaatct ccagatttgt atttgacagc 300  
ttggtgggaa gggaagcaca ctctgctgtt ctggaatctt atgcccaggg tttttcactt 360  
ctccccacat ctccctttcc acttgccagt gttgtgtagt tagaacctga accactaact 420  
tctaggggcc tttggtctgc cctaccttaa cccaaatgaa agtaaattcc tttccctta 480

gccccaaataa gggtggggttt tctaaaaaaa tagtctatat tagggaacaa caacagcaaa 540  
 ttagacaaaaa cccagaaaagc acaaagcatg aggtggagtt actgtgcca aagtcctcac 600  
 tcagaccagt gccctccag ttcagttgtc tatgtattac cttccttacc ttcataatgt 660  
 ttgccaggct tct 673

<210> 39  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 actgattgag atttaggaaa aagcatttct aaagaatatt tgcttccctt agaactacag 180  
 actcgaaatc tttaaagatg gtgcctaagc atctatgtat tttttttaag ttccacagat 240  
 ttttctgttg ggcaggccaa ggattataaa ccacttccct aaaggcaaca ttaatgcaaa 300  
 agtccccaga tggcaataca aagtatcccc tggtagcaca tatattcatt tgtgagtttg 360  
 gatatagagc acattatcta aaccattttg tagttccaaa aaccatcta aatttcttga 420  
 gttcctgaat tttgaacagg attacctgga gcctggagcc actttaagtt gtacttctga 480  
 ctaaactgga attatgagtg aggaagagtg tttactaaat aaatgactgg ggcaagcaaa 540  
 attgaggagg aaattagaaa ctgtttgaca aactttaaga gctacttgaa ataacagaag 600  
 tcttgattaa tatgcaaata atggctagaa agtatggttt aactggaccc tattatgcct 660  
 tttaaaaata atttcagtaa cccataaata catgttgtaa aaaattcaaa tatacagaat 720  
 ggaataaaaa aatgatctcc ctttattacc ctccca 756

<210> 40  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
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 aagtctcccc agagacatat ttgtgtggcc tagaagtcct ctgtggtctc ccctcctctg 120  
 aagactgcct ctggcctgca gctgacctgg caaccattca ggcacatgaa ggtggagtgt 180  
 gaccttgatg tgaccgggat cccactctga ttgcatccat ttctctgaaa gacttgtttg 240  
 ttctgcttct cttcatataa ctgagctggc cttatccttg gcatccccct aaacaaacaa 300  
 gaggtgacca ccttattgtg aggttccatc cagccaagtt tatgtggcct attgtctcag 360

gactctcatc actcagaagc ctgcctctga tttaccctac agcttcaggc ccagctgccc 420  
cccagtcttt ggggtggtgct gttctttttct ggtggattta atgctgactc actggtacaa 480  
acagctgttg aagctcagag ctggaggtga gcttctgagg cctttgccat tatccagccc 540  
aagatttggt gcctgcagcc tcttgtctgg ttgaggactt ggggcaggaa a 591

<210> 41  
<211> 648  
<212> DNA  
<213> Homo sapiens

<400> 41  
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tgtctggcct ggctggcctg gcagaacccc cacatgctct tcctggatga accaccaat 180  
cacctggata tcgagaccat cgacgcctg gcagatgcca tcaatgagtt tgaggggtgt 240  
atgatgctgg tcagccatga cttcagactc attcagcagg ttgcacagga aatttgggtc 300  
tgtgagaagc agacaatcac caagtggcct ggagacatcc tggcttaciaa ggagcacctc 360  
aagtccaagc tgggtggatga ggagccccag ctcaccaaga ggaccacaa cgtgtgcacc 420  
ctgacattgg catctctgcc aaggccatga gcatcatgaa ctcgtttgta aacgacgtgt 480  
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catcccgaga agtccagacg gctgtgcgtc tgctgctgcc tggggagctg gccaagcacg 600  
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<210> 42  
<211> 719  
<212> DNA  
<213> Homo sapiens

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<222> (45)..(45)  
<223> n is a, c, g, or t

<220>  
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<222> (251)..(251)  
<223> n is a, c, g, or t

<220>  
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<222> (255)..(255)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature

<222> (504)..(504)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (513)..(513)  
 <223> n is a, c, g, or t

<220>  
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 <222> (643)..(643)  
 <223> n is a, c, g, or t

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 ggagtaccgt caccagctgg gtcggtatgg catctccgga gaactggcca tgcgtcctct 120  
 tgccagcctg tctggggggcc agaagagccg agtggccttt gctcagatga ctattgccct 180  
 gcccacttc tacattctgg atgaaccac aaaccacctg gacatggaga ccattgaggc 240  
 tctgggccgt ngctncaaca atttcagggg tgggtgtgatt ctgggtgtccc acgatgagcg 300  
 ctttatcagg ctgggtgtgcc gggagttgtg ggtatgcgaa ggaggcggcg tcaccctgtg 360  
 ggaaggagga tttgaccagt accgcgccct cctccaggga acagttccgc cgcgaaggct 420  
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 ctggggccacc atgtaggcca ccantcccag gcnttggaact tccccccaac ttggggacag 540  
 ccttattccc aaatgtctct atccttttga ctggagcatc ttctgcacaa ccttggggagc 600  
 ccatccaagg gttggtgagg actggtctcc cgggggtggg ggnttggggg gtacctctgg 660  
 gggtatagat tccccactg cccagctct gactggaccc caagtggctg ctatgtaaa 719

<210> 43  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
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 aaccctaga accgcgttgg gtttgtgggt gtctcgtgct cagccactct gccagctgg 120  
 gttggatctt ctctccattc ccctttctag ctttaactag gaagatgtag gcagattggg 180  
 ggtttttttt ttttttttaa catacagaat tttaaatacc acaactgggg cagaatttaa 240  
 agctgcaaca cagctggtga tgagaggctt cctcagtcca gtcgctcctt agcaccaggc 300  
 accgtgggtc ctggatgggg aactgcaagc agcctctcag ctgatggctg cacagtcaga 360  
 tgtctggtgg cagagagtcc gagcatggag cgattccatt ttatgactgt tgtttttcac 420  
 attttcatct ttctaagggt tgtctctttt ccaatgagaa gtcatttttg caagccaaaa 480

gtcgatcaat cgcattcatt ttaagaaatt ataccttttt agtacttgct gaagaatgat 540  
 tcagggtaaa tcacatactt tgttttagaga ggcgaggggt ttaacccgag tcaccagct 600  
 gg 602

<210> 44  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
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 caaaacttct gccaggact caatgcaaca ggaaacaatc cttgtaacta tgcaacatgt 120  
 actggcgaag aatatttggt aaagcagggc atcgatctct caccctgggg cttgtggaag 180  
 aatcacgtgg ccttggttg tatgattgtt attttcctca caattgccta cctgaaattg 240  
 ttatttctta aaaaatattc ttaaatttcc ccttaattca gtatgattta tcctcacata 300  
 aaaaagaagc actttgattg aagtattcaa tcaagttttt ttgttgtttt ctgttcctt 360  
 gccatcacac tggtgcacag cagcaattgt tttaaagaga tacattttta gaaatcacia 420  
 caaactgaat taaacatgaa agaaccaag acatcatgta tcgcatatta gttaatctcc 480  
 tcagacagta accatgggga agaaatctgg tctaatttat taatctaaaa aaggagaatt 540  
 gaattctgga aactcctgac aagttattac tgtctctggc atttgtttcc tcacttttaa 600  
 aatgaatagg taggttagta gccc 624

<210> 45  
 <211> 585  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 cagaggaaga gtgatggtgg catgctggtg gtggcgggtg ctggtgggag gacagtgcca 120  
 acctcctcct ggggatccca tggtggagac tctaaggata aggctggtgc tgcccagggt 180  
 gtctacagga actgcaggtg tctaccccca agtcttccct cctcccaagc caggggtggc 240  
 acagggcact agatccctgg agttcaggaa ccaacacaag cacaaccacg ggcataagtt 300  
 ggccttggcc actgccacc acggccctcc ttttggtgctc catgctggca tcttcaactcc 360  
 cctacccctt cccagccac tgctgctcat tcaaacttct gtccatgtcc ctccactgtt 420  
 cctatcagca ggtggccctt gggcatcaga acagcctgcc ctgggcacca ggtggcagac 480  
 aactcagag catgtctggc tttcctggtg ggtccaggct cattctgctt ctgatttccc 540  
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<210> 46  
 <211> 637  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
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 gaaagccatg gctgggaaaa tggaagtga gctgccgact gtgcatgact gctctgaacg 180  
 tctgaaatga gagtgccatg tatttctttc ttgacaggac atctcaagtc ttttaacctat 240  
 taagactcca tttgtgcctc ttggatccaa gcaggccttg aatgcaatgg aagtggttta 300  
 tagtcccttg ctcttacaac ttgcaggggac atgtgggttat ttggaaattg tgactgagcg 360  
 gacccaagaa tgtaaataat attcataaac ctatgggaga ctctgtgtgac tatttttttt 420  
 ccttgttcta ggcacagaaa aaaataggtc agcttaaaaa tatgtttaca ttggataaag 480  
 gattaggcaa aaataaaatg tttcaaggat tcctgaccat aagtgcaga gaaagagagt 540  
 tgtgggttta gatgaagcaa gggtatcatg cagaattggg taagaatgct tctgttcctg 600  
 gaagaccag agttaaattg agatgtccac acgaggg 637

<210> 47  
 <211> 698  
 <212> DNA  
 <213> Homo sapiens

<400> 47  
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 acagccgccc tcttgttcat gatcggtgct ctcatccctt tcaacgtcat tctggatgtc 120  
 atctccaaat gttactcaga gagggcaatg ctttactatg aactggaaga cgggctgtac 180  
 accactggtc catatttctt tgccaagatc ctcggggagc ttccggagca ctgtgcctac 240  
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 ttctgctgc acttctgct ggtgtggctg gtggtcttct gttgcaggat tatggccctg 360  
 gccgcccggg ccctgctccc caccttccac atggcctcct tcttcagcaa tgccctctac 420  
 aactccttct acctcgccgg gggcttcatg ataaacttga gcagcctgtg gacagtgcc 480  
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 ttcagcagaa gaacttataa aatgcctctc gggaacctca ccatcgcggt ctcaggagat 600  
 aaaatcctca gtgtcatgga gctggactcg taccctctct acgccatcta cctcatcgtc 660  
 attggcctca gcggtggctt catgggtcctg tactacgt 698

<210> 48  
 <211> 24  
 <212> DNA  
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<220>  
 <223> primer

<400> 48  
 ccctgtggaa tgtacctatg tgag

24

<210> 49  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 49  
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24

<210> 50  
 <211> 24  
 <212> DNA  
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<220>  
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<400> 50  
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24

<210> 51  
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 <212> DNA  
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<220>  
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<400> 51  
 agcttctcca ttctgccac ctgc

24

<210> 52  
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<220>  
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<400> 52  
 aaggaaaagt acggcgtgga cgac

24

<210> 53  
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 <212> DNA  
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<220>  
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<400> 53  
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<210> 54  
 <211> 24  
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<220>  
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<400> 54  
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24

<210> 55  
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<220>  
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<400> 55  
 ggggtttctag ttctgggggc tgga

24

<210> 56  
 <211> 24  
 <212> DNA  
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<220>  
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<400> 56  
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24

<210> 57  
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 <212> DNA  
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<220>  
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<400> 57  
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24

<210> 58

<211> 24  
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<220>  
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<400> 58  
 agttgtgttt tgtgctgagc ctcc 24

<210> 59  
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<400> 59  
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<400> 60  
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<210> 61  
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<400> 61  
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<210> 62  
 <211> 24  
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<210> 63  
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<220>  
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<400> 63  
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<210> 64  
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 <212> DNA  
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<220>  
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<400> 64  
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24

<210> 65  
 <211> 24  
 <212> DNA  
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<210> 66  
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 <212> DNA  
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<210> 67  
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 <212> DNA  
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<220>  
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<400> 67  
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24

<210> 68  
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<400> 68

cctgctggag agtgttttgg gctt

24

<210> 69

<211> 24

<212> DNA

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<223> primer

<400> 69

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<210> 70

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 70

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24

<210> 71

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 71

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<210> 72

<211> 24

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<400> 72

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<210> 73

<211> 24

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 <400> 75  
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 <210> 76  
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 <223> primer  
  
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 <210> 77  
 <211> 24  
 <212> DNA  
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 <220>  
 <223> primer  
  
 <400> 77  
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 <210> 78  
 <211> 24  
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<220>  
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 <400> 78  
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<210> 79  
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<210> 80  
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 <400> 80  
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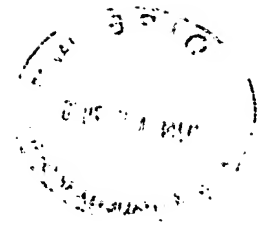
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